

Abstract of the Disclosure

A field emission device for displaying images with good quality is provided.

The field emission device includes an anode plate, an anode electrode and a phosphor layer are formed inside of the anode plate, a cathode plate, a plurality of electron emission sources for emitting electrons which correspond to the phosphor layer and a gate electrode having gate holes through which the electrons pass are formed inside of the cathode plate, a mesh grid which is provided between the cathode plate and the anode plate and in which a plurality of electron-controlling holes are formed in a region corresponding to the gate holes, a spacer which supports the mesh grid between the anode plate and the mesh grid, and insulating layers which are formed on both sides of the mesh grid and have windows through which the plurality of electron-controlling holes are exposed and which correspond to a region where the plurality of electron-controlling holes are formed.